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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/859,684	05/17/2001	Marko Hahn	MICRONAS.6232	4058	
75	90 04/05/2004		EXAMI	NER	
Samuels, Gauthier & Stevens LLP			YENKE, BRIAN P		
225 Franklin Street, Suite 3300 Boston, MA 02110			ART UNIT	PAPER NUMBER	
			2614		
			DATE MAILED: 04/05/2004	DATE MAILED: 04/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action 0	09/859,684	HAHN ET AL.			
Office Action Summary	Examiner	Art Unit			
	BRIAN P. YENKE	2614			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	he correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply to the statutory minimum of thirty (30) and will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	be timely filed  )) days will be considered timely. from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on RC	CE /Amendment (25 November :	2003).			
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D. 11	l, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applic	ation.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1</u> is/are allowed.					
6)⊠ Claim(s) <u>2</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	ner.				
10) The drawing(s) filed on is/are: a) □ a	ccepted or b) objected to by t	he Examiner.			
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Of	fice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreig		9(a)-(d) or (f).			
1. Certified copies of the priority docume					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the pr		eived in this National Stage			
application from the International Bure					
* See the attached detailed Office action for a li	st of the certified copies not rece	eived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summ				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	nil Date nal Patent Application (PTO-152)			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	(8) 5) ☐ Notice of Inform (6) ☐ Other:	iai Faterit Application (PTO-152)			
S. Patent and Trademark Office		_			
PTOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 9			

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#### **DETAILED ACTION**

# Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 25 November 2003 has been entered.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Schamel et al., DE-3617827 (applicant's cited prior art).

In considering claim 2,

a) the claimed receiving a picture signal...is met where a video signal is received (b) in which a measurement sample is formed consisting of a certain number of pixels in a line

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or in several lines in an arbitrary planar pattern (abstract), where the pattern includes regions as that in Fig a.

- b) the claimed for the at least one detected homogeneous picture region...is met where the pattern is subjected to high-pass filtering (abstract) in order to eliminate the DC component.
- c) the claimed determining the noise contained in the picture...is met where the difference amplitude of the high-pass filtered signal is determined and evaluated from a certain gray value (abstract).

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baatz et al., US 2001/0055421 in view of Ward et al., US 5,329,311.

In considering claim 2,

a) the claimed receiving a picture signal...is met by step 300 (Get Picture Objects) Fig 5, where the picture objects received are processed for homogeneity comparison (Fig 1) where in step 140 where is determined whether the picture objects conform to the homogeneity criterion tolerance selected in step 120 (Fig 1).

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However Baatz, does not explicitly disclose measuring a high-frequency signal component or determining the noise contained in the picture from the high-frequency signal component and providing a noise signal indicative thereof.

Baatz discloses a method, which iteratively segments a digital picture to determine if one the picture elements/segments conform or do not conform based on a specific homogeneity criterion and then merging the conforming objects. Baatz discloses that this method is very well suited for semantic classification of the entire picture regardless if the picture is highly textured or noisy.

Regarding the high pass filtering (step b) and the determining the noise in the picture from the high pass filtered step (step c) both of which are conventional in the art.

Thus the examiner incorporates Ward, which discloses that since TV pictures have frequencies concentrated in the central portion of the spectrum and do not spread to the very high frequency portion, a high pass filter (106) is used to obtain the random noise within the picture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Baatz which discloses a method to obtain the homogeneity of a picture by also filtering/determining the amount of noise present in the picture, in order to provide a noise-free picture.

# Allowable Subject Matter

4. Claim 1 is allowed. For Reasons for Allowance, please refer to Notice of Allowance (Paper #6).

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### Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—please refer to newly cited references on attached form PTO-892.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

# Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

### or faxed to:

### (703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

General information about patents, trademarks, products and services offered by the United States Patent and Trademark Office (USPTO), and other

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related information is available by contacting the USPTO's General Information Services Division at:

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(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

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General information brochures can also be obtained in person from the Patent Search Room located in Crystal Plaza 3, Room 1A03, 2021 South Clark Place, Arlington, VA 22202.

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PAIR (http://pair.uspto.gov) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper

form.

Primary Examiner

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B.P.Y

31 March 2004